

Title (en)

Method and frame for "in band" path failure detection and localization within an SDH/SONET network domain

Title (de)

Verfahren und Rahmensignal zur Inband-Erkennung und -Lokalisierung eines Path-Ausfalls in einer SDH/SONET Netzwerkdomäne

Title (fr)

Procédé et trame pour la détection et la localisation dans la bande d'une faute de chemin dans un domaine de reseau SDH/SONET

Publication

EP 1523117 A1 20050413 (EN)

Application

EP 03292497 A 20031009

Priority

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Abstract (en)

It is disclosed a method for in-band path failure detection localization in a SDH/SONET network, the network comprising at least one network domain, the method comprises the steps of defining at least one path (PATH) through which SDH/SONET frames are transmitted and is characterized by coding K3 byte of POH, for SDH technology, or coding the Z4 byte of STS1 POH, for SONET technology. Bits 1-6 of byte K3 or Z4 are coded for providing: a node identifier indicating a node detecting a failure; Remote Defect Indication information; and information relating to the fact that a failure is external or internal to a network domain. <IMAGE>

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H04J 3/14; **H04J 3/16**

IPC 8 full level

H04J 3/14 (2006.01); **H04J 3/16** (2006.01)

CPC (source: EP US)

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Citation (search report)

- [XY] US 6366556 B1 20020402 - BALLINTINE JAMES E [US], et al
- [YA] US 6411598 B1 20020625 - MCGLADE BRYAN J [AU]
- [A] US 5636203 A 19970603 - SHAH JASVANTRAI C [US]
- [A] EP 1014603 A2 20000628 - CIT ALCATEL [FR]
- [A] US 6452906 B1 20020917 - AFFERTON THOMAS S [US], et al
- [A] US 6141320 A 20001031 - IKAWA FUMIHIRO [JP]

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